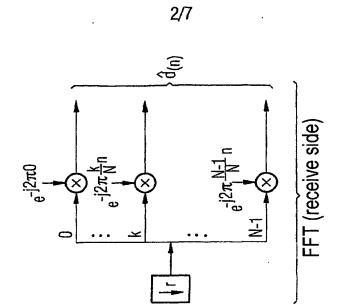
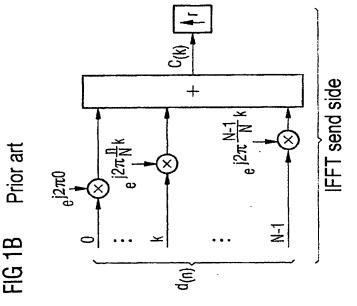


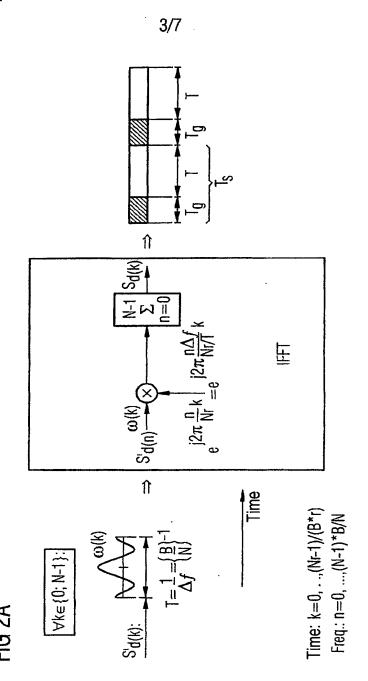
PCT/DE2003/002263



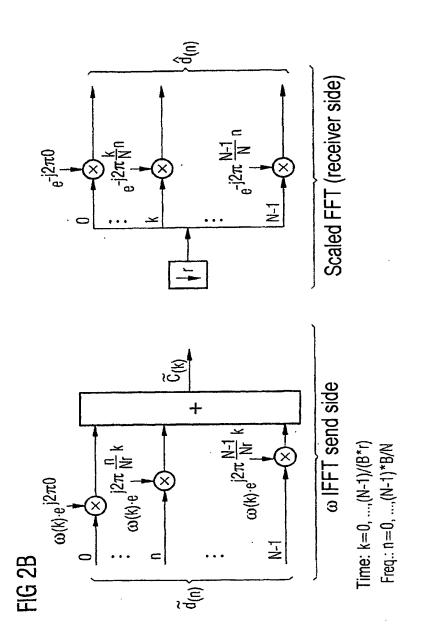


Time: k=0, ..., (N-1)/BFreq: n=0, ..., (N-1)\*B/N

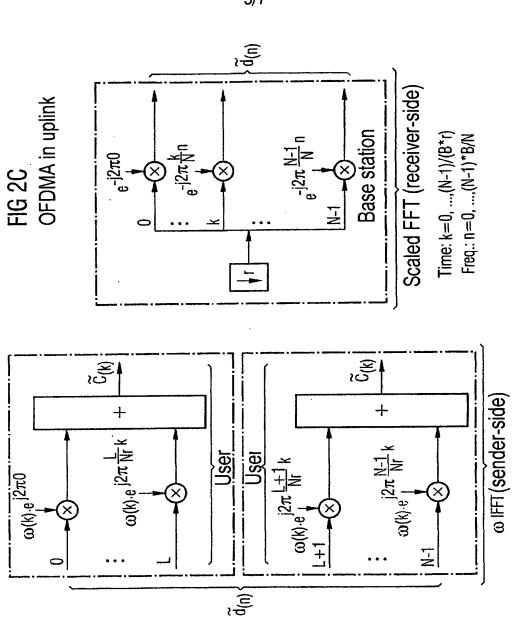
PCT/DE2003/002263



PCT/DE2003/002263



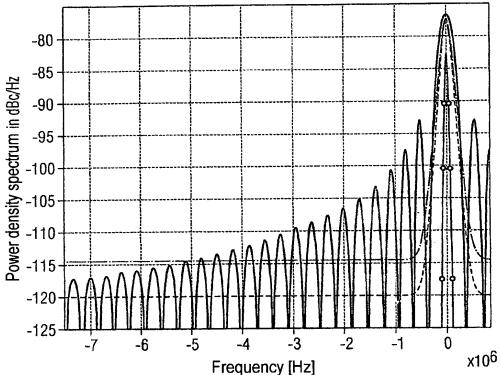
PCT/DE2003/002263



PCT/DE2003/002263

FIG 3A

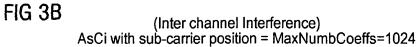


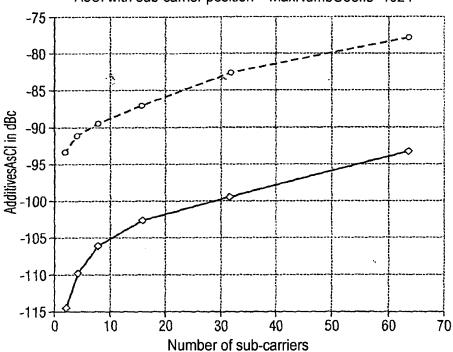


- PSD mask
- PSD auto correlation function of the power density spectrum PSD power density spectrum with modified subcarrier with NFFT=4; oversampling rate=256
- PSD power density spectrum of the original subcarrier with NFFTmax=64; oversampling rate=16

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---- OFDM Power -80dBc f1 = 50 kHz f2 = 500 kHz

Mod. OFDM Power -80dBc f1 = 50 kHz f2 = 500 kHz

Size of the FFT: 2 4 8 16 32 64 Sampling rate: 512 256 128 64 32 16 Window size: 512 512 512 512 512 512

Gains: 21.3154 18.7443 16.5869 15.7136 16.5708 15.3561 dB

Note: For perfect reconstruction (NFFT< = oversampling rate must apply!!! ...

Note: NFFT=4; Oversampling rate=256

Note: For perfect reconstruction the Nyquist criterion must be adhered to !!!